

TECHNICALLY Speaking

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Affinity Purified Anti-Mouse Macrophages (Metallophilic)

CL89149

Lot: 14926

DESCRIPTION: Cedarlane's CL89149 is a useful marker for identification of macrophage subpopulations in various organs, especially the metallophilic macrophages adjacent to the marginal zone of the spleen. In addition, CL89149 detects macrophages at inflammatory sites and is positive with Kupffer cells. The antigen is found intracellularly and on cell surface on metallophilic macrophages. No reactivity of CL89149 was found with dendritic cells, peritoneal resident macrophages, peritoneal exudate cells, bone marrow or blood cells.

PRESENTATION: 200 µg, lyophilized. Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.4mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 10mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% thimerosal as a preservative.

IMMUNOGEN: Mouse lymph node tissue.

SPECIFICITY: Reacts with a subpopulation of mature resident tissue macrophages.

CLONE: MOMA-1

ISOTYPE: Rat IgG_{2a}

STORAGE/STABILITY: Store original lyophilized vial at 4°- 8°C for 1 year, or for longer at -20°C. Stock solution or aliquots thereof should be stored at -20°C for 1 year. **Avoid repeated thawing and freezing.**

APPLICATIONS: Tested for immunohistochemistry (IHC).

Approximate working dilution for IHC:

Frozen sections: 2µg/ml (1:200)

Paraffin sections: does not react on routinely processed paraffin sections.

Optimal dilutions should be determined by the end user.

Suggested positive control: Mouse spleen

BACKGROUND/RESULTS: Distinct macrophage subpopulations of lymphoid organs express the antigen. In the spleen, they are localized at the marginal sinus forming a ring around the periarteriolar lymphocyte sheath and follicular areas at the inner side of marginal zones. In lymph nodes, they are localized in the sinusoids and medullary cords, but not within follicular areas or paracortex. In Peyer's patches they are localized in the interfollicular areas at the serosal side. Kupffer cells in the liver can be clearly stained by MOMA-1. No MOMA-1-positive macrophages were found in the thymus, brain, kidney, liver, skin or heart. In non-lymphoid organs, the antigen is only found on a macrophage subpopulation in the lamina propria of the villi of the small intestine.

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For more information or to place an order please contact...

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REFERENCES:

1. Kraal, G., Janse, M.: Marginal metallophilic cells of the mouse spleen identified by a monoclonal antibody. *Immunology* 58: 665-669 (1986).
2. De Jong, J.P., Leenen, P.J., Melis, M., Voerman, J.S.A., Van Ewijk, W.: Immunophenotypical Characterization of Macrophage and Dendrocyte Subpopulations in the Murine Spleen. Submitted for publication. From: Localization and Phenotypical Characterization of Murine Macrophages, Chapter 8. Thesis, De Jong, J.P., Erasmus University. Rotterdam (1990).

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